

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF AN EMERGENCY HAZARD IDENTIFICATION BEACON WITH OPTICOM DETECTION AT THE INTERSECTION OF MD 75 (MAIN STREET) AND LOCUST STREET IN THE TOWN OF UNION BRIDGE, CARROLL COUNTY, MD 75 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE EMERGENCY HAZARD IDENTIFICATION BEACON WILL ONLY FLASH WHEN ACTUATED BY AN EMERGENCY VEHICLE.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER, INTERSECTION MONITOR WITH BATTERY BACK-UP FOR PHONE DROP AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SYNDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SYNDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT.

STANDARD NO. MD-104.00 - 104.00-30 STANDARD NO. MD-104.32-01 (INTERSECTION FLAGGING OPERATION)
STANDARD NO. MD-104.31-01 (FLAGGING OPERATION)
STANDARD NO. MD-104.33-01 (SHOULDER WORK)
STANDARD NO. MD-104.35 (LANE SHIFT)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. ROBERT FISHER
DISTRICT ENGINEER
PHONE: (301) 624-8140

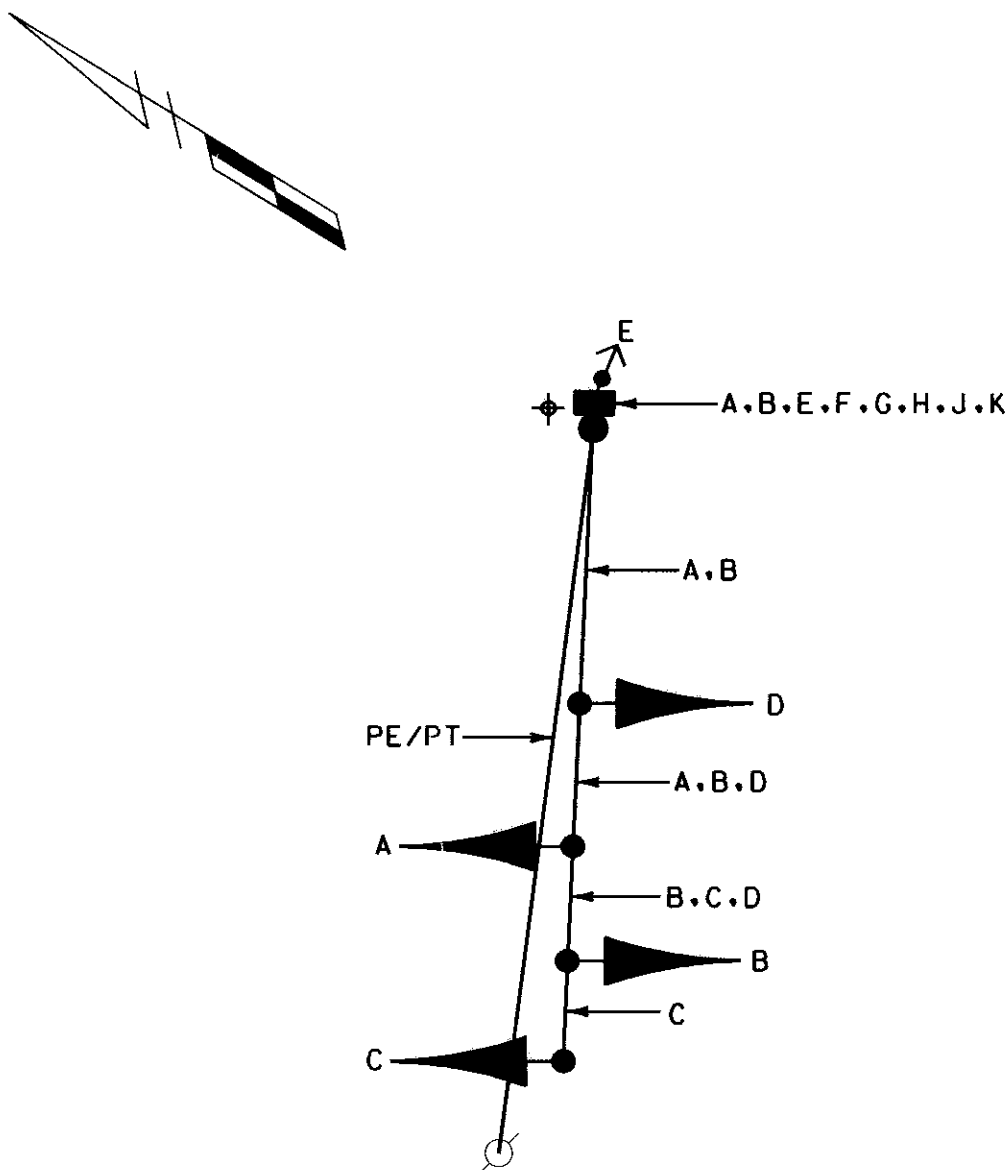
MR. JOHN WRIGHT
ACTING DISTRICT UTILITIES ENGINEER
PHONE: (310) 729-8436

MR. JOHN CONCANNON
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (301) 624-8141

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. LEON KERNS
ACTING ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 624-8140

WIRING DIAGRAM



WIRING KEY

- A } 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
B }
C } 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
D }
E } 4-CONDUCTOR OPTICOM DETECTOR CABLE (NO. 14 A.W.G.)
F } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
G } 1-CONDUCTOR ELECTRICAL CABLE (NO. 8 AWG)
H }
J }
K } 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

PE/PT - PROPOSED OVERHEAD ELECTRICAL AND TELEPHONE SERVICE

+ - 3/4 IN. X 10 FT. GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

ITEM NO.	QUANTITY	DESCRIPTION
9080	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER AND INTERSECTION MONITOR II WITH BATTERY BACK-UP FOR PHONE DROP HOUSED IN A NEMA SIZE "5" POLE MOUNTED CABINET
9089	42 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH W96-7(1) (MOD.) SIGN (36 IN. X 96 IN.) DUAL FACED - MAST ARM MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2001	1 C.Y.	TEST PIT EXCAVATION
8001	5 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8006	2 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8012	1 EACH	FURNISH AND INSTALL 3M OPTICOM #721 DETECTOR EYE
8013	1 EACH	FURNISH AND INSTALL 3M OPTICOM #760 CARD RACK
8014	1 EACH	FURNISH AND INSTALL 3M OPTICOM DISCRIMINATOR MODULE
8015	3 EACH	FURNISH AND INSTALL OPTICOM EMITTER SYSTEM, 500 SERIES, VISIBLE LIGHT FILTER AND HARDWARE
8019	1 EACH.	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8034	1 EACH.	FURNISH AND INSTALL GROUND ROD - 3/4 INCH X 10 FOOT LENGTH
8037	30 L.F.	FURNISH AND INSTALL 4 CONDUCTOR OPTICOM DETECTOR CABLE
8043	25 L.F.	FURNISH AND INSTALL ELECTRICAL CANLE - 3 CONDUCTOR (NO. 14 AWG)
8044	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8045	110 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8047	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 1 CONDUCTOR (NO. 8 AWG) - THHN/THWN
8048	20 L.F.	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8053	42 S.F.	INSTALL OVERHEAD SIGN
8065	20 L.F.	FURNISH AND INSTALL 1 INCH RIGID ELECTRICAL GALVANIZED RISER
8066	1 EACH	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240 V, 1 PHASE 3 WIRE SYSTEM)
8069	1 EACH	FURNISH AND INSTALL PHOTOCELL
8078	1 EACH	FURNISH AND INSTALL MAST ARM POLE AND 60 FT. MAST ARM
8084	4 EACH	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION

1 8010

1 EACH

PAINT STRUCTURE CON GROUND

WR&A
Whitman, Requardt
and Associates, LLP
2315 Saint Paul Street
Baltimore, Maryland 21218
(410) 235-3450

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
GENERAL INFORMATION PLAN
MD 75 AND LOCUST STREET

DRAWN BY: S.BLOSS	F.A.P. NO.	TS NO.	SHEET NO.
CHECKED BY: N.LEARY	S.H.A. NO.	TS-4046	
SCALE: NONE	COUNTY: CARROLL	T.I.M.S. NO.	
DATE: 10/26/00	LOG MILE: 06007500.51	0374	

2 OF 2